

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE		PAGE OF PAGES 1 2	
2. AMENDMENT/MODIFICATION NO. 0001		3. EFFECTIVE DATE 03-Sep-2003		4. REQUISITION/PURCHASE REQ. NO. SHOP MEMO 6-25-03		5. PROJECT NO.(If applicable)	
6. ISSUED BY NAVSEA INDIAN HEAD 101 STRAUSS AVE. ATTN: JESSICA MADDOX 11431 MADDOXJD@H.NAVY.MIL INDIAN HEAD MD 20640-5035		CODE N00174		7. ADMINISTERED BY (If other than item 6) See Item 6		CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code)				X		9A. AMENDMENT OF SOLICITATION NO. N00174-03-R-0050	
				X		9B. DATED (SEE ITEM 11) 21-Aug-2003	
						10A. MOD. OF CONTRACT/ORDER NO.	
						10B. DATED (SEE ITEM 13)	
CODE				FACILITY CODE			
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input checked="" type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer <input type="checkbox"/> is extended, <input checked="" type="checkbox"/> is not extended. Offer must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods: (a) By completing Items 8 and 15, and returning <u>1</u> copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. ACCOUNTING AND APPROPRIATION DATA (If required)							
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.							
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.							
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(B).							
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:							
D. OTHER (Specify type of modification and authority)							
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) The purpose of this amendment is to provide drawings concerning the subject solicitation as well as to provide questions and answers. See page two for details.							
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)			
15B. CONTRACTOR/OFFEROR _____ (Signature of person authorized to sign)		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA BY _____ (Signature of Contracting Officer)		16C. DATE SIGNED 03-Sep-2003	

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

1. The following drawings are being provided as attachments to this amendment:

PRIMER PN-10551688
PRIMER PVU-2 PN-851AS250
M90 PN-8596123
M36A1 PN-11730543
M27 PN-10520550
10520551
M91 PN-8597230
M127 PN-10520589
M25A1 PN-11730533
M1A1 PN-5184966
RAU-3A PN-6783541
M29A2 PN-8593625

2. The following questions and answers are being provided:

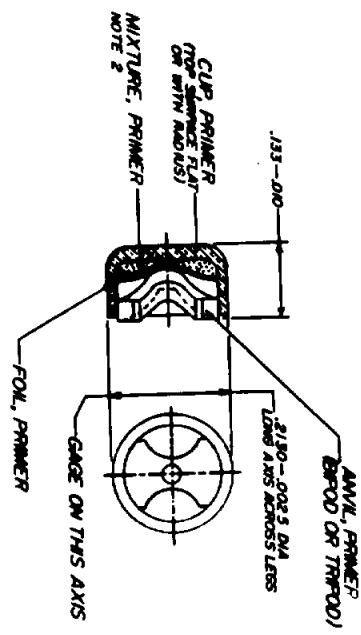
Question #1: First, we are concerned that you are requiring a x-ray detector with a area of 14x17, (on page 12). We are aware of the 11x16 x-ray panel or 40cm X 30cm in size. Are you sure of this size panel in the solicitation?

Answer #1: Detector packages can be made to any size. The Government requested a detector with an area of 14x17 as this is a normal x-ray film size and it is common in the market place. The Government requirement for a detector with an area of 14-x17 remains unchanged.

Question #2: Would it be possible to see dimensional drawings of items of interest to be x-rayed.

Answer #2: Please see the drawings listed above in item #1.

3. All other terms and conditions remain unchanged.
4. For further information, contact Jessica Maddox



- NOTES:—
- 1 - SPEC. IN-P-4000, CLASS 1, APPLIES WITH THE FOLLOWING EXCEPTIONS:—
 - (A) - IN PARAGRAPH 2, 1/2 INCH DIAMETERS AND 0.000004, PRIMER (STYPHANE),
 - (B) - IN PARAGRAPH 3, 2:
 - 1 - IN PARAGRAPH 3, 2:
 - 2 - IN PARAGRAPH 3, 2:
 - 3 - IN PARAGRAPH 3, 2:
 - 4 - IN PARAGRAPH 3, 2:
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MANUFACTURE OR PROCESS
-WILL NOT BE UPDATED-

(SOURCE CONTROL DRAWING)			
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PART NO. 10551688

PRIMER, PERCUSSION

PAD

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH DDD-STD-100.

△ LOAD WITH 832 MG OF PYROTECHNIC COMPOSITION, FIND NO. 4.

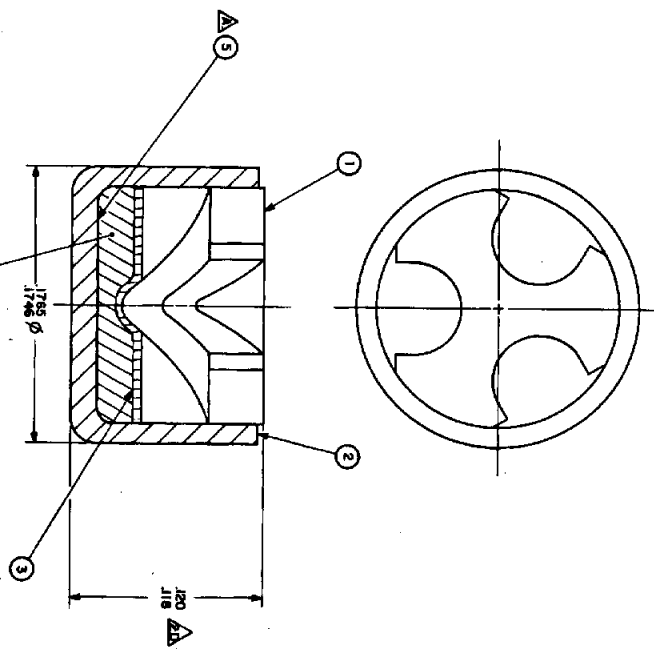
IGNITION DEVICE LOADING PROCEDURE

- △ ADD 0.0045 ± 0.0005 MG. OF SHELLAC SOLUTION, FIND NO. 3, TO BOTTOM OF CUP, FIND NO. 2. ADVISORY: USE A TYPICAL 21 GAUGE DISPENSING NEEDLE (TRIDAK DIV., INDIAN, INC., SECOR RD., BROOKFIELD CENTER, CT 06805).
- △ LOAD 832 MG PYROTECHNIC COMPOSITION, FIND NO. 4, INTO CUP, FIND NO. 2.
- △ SMALL TIMEOUSLY FORM SEALING PAPER DISC, FIND NO. 3, AND COMPACT PYROTECHNIC COMPOSITION, FIND NO. 4, WITH 160 ± 5 POUNDS FORCE ON THE LOADING RAM 30003-851AS119. THE SHELLAC SIDE OF THE SEALING PAPER SHALL BE PLACED TOWARD THE PYROTECHNIC COMPOSITION, FIND NO. 4.
- △ INSERT ANVIL, FIND NO. 1, INTO LOADED CUP, FIND NO. 2. THE ASSEMBLED IGNITION DEVICE HEIGHT SHALL BE AS SHOWN.

△ DRY ASSEMBLED IGNITION DEVICE FOR 24 HOURS TO 96 HOURS AT A TEMPERATURE OF 20° ± 5°F.

3. IGNITION DEVICE ASSEMBLY AND COMPONENT PARTS SHALL MEET THE REQUIREMENTS OF SPEC WS21579.

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CLASSIFICATION OF CHARACTERISTICS PER GAN	
CRITICAL	NONE
MAJOR	NONE
MINOR	ALL CHARACTERISTICS

ITEM	DESCRIPTION	DATE	APPROVED
A	SEE NON 851AS250-2	11/1/76	W. J. W.
B	SEE NON 851AS250-3	11/1/76	W. J. W.
C	SEE NON 851AS250-4	11/1/76	W. J. W.
D	SEE NON 851AS250-5	11/1/76	W. J. W.

ITEM	DESCRIPTION	DATE	APPROVED
1	851AS14	11/1/76	W. J. W.
2	851AS14	11/1/76	W. J. W.
3	851AS14	11/1/76	W. J. W.
4	851AS14	11/1/76	W. J. W.
5	851AS14	11/1/76	W. J. W.

UNCLASSIFIED DOCUMENT
EXCLUDED FROM AUTOMATIC
DOWNGRADING AND
DECLASSIFICATION
PROCESSING
DATE 11/1/76 BY W. J. W.

ITEM	DESCRIPTION	DATE	APPROVED
1	851AS14	11/1/76	W. J. W.
2	851AS14	11/1/76	W. J. W.
3	851AS14	11/1/76	W. J. W.
4	851AS14	11/1/76	W. J. W.
5	851AS14	11/1/76	W. J. W.

There is also a growing body of evidence that the use of the Internet may be associated with increased rates of depression and anxiety. For example, a study by Kross et al. (2002) found that the use of the Internet was associated with increased rates of depression and anxiety in a sample of young adults. This may be due to the fact that the Internet provides a platform for social comparison, which can lead to feelings of inadequacy and low self-esteem. Additionally, the Internet can be a source of information about mental health problems, which can lead to increased worry and concern. However, it is important to note that the Internet can also be a source of support and information for people with mental health problems. For example, online support groups can provide a sense of community and understanding for people who are experiencing similar problems. Therefore, the impact of the Internet on mental health is complex and depends on a variety of factors.

SEE DETAIL A

✓NOTES 1 AND 2

CARTRIDGE,
DELAY, M90
DELAY 0.3 SECOND

4 LOT NUMBER

DETAIL A

IGNITER, 16.5 GRAINS
NOTES 5 AND 7

26-02-

SEALANT-10523453
NOTE 6

**-360° CRIMP (1.06 R ADVISORY)
NOTE 4**

**-.689 DIA MAX-
OVER MARKING**

DELAY ELEMENT, M4-8596122-1

-.750 DATUM DIA

PACKING "O" RING
HYDRAULIC-AN6227-12

-CASE, CARTRIDGE - 8595202
(8595393)

-877 DIA MAX

0.005

D8596/23

DATE		TIME		PAGE	
NO.	NAME	NO.	NAME	NO.	NAME
B	REDAWAY AND REVISED, E.O. NO. P60186	5800			
C	11-21 E.O. P70206	5801			
D	E.O. NO. P60104	5802			
E	SEE NOR 8356123 - F	5803			
F	SEE ECF 840220 10065	5804			

- 1 - STAMP WITH BLACK NO. 37038 STENCIL INK, A-A-208: CARTRIDGE DESIGNATION, LOT NO. PER MIL-STD-1168. MARKING NOT TO EXCEED 270° OF PERIPHERY.
- 2 - COAT MARKING WITH MOISTURE-AND-FLAMMUS-RESISTANT VARNISH, SPEC MIL-V-173.
- 3 - DELETED.
- 4 - CHAMF CARTRIDGE TO INSURE A SEAL CAPABLE OF WITHSTANDING 14 P.S.I. INTERNAL-EXTERNAL PRESSURE DIFFERENTIAL WITH A MAXIMUM PERMISSIBLE LEAK RATE OF 1 X 10⁻⁴ CC/SEC.
- 5 - BLACK POWDER, CLASS 5, SPEC MIL-P-225.
- 6 - APPLY SEALANT THROUGHOUT THE ENTIRE LENGTH (380°) OF THE ADJOINING SURFACES OF THE CASE SIDEWALL BEFORE THE INSERTING OF RIMS. THE PROPELLANT CAVITY MUST BE KEPT FREE OF SEALANT.
- 7 - THE IGNITER AND PROPELLANT WEIGHTS GIVEN ARE APPROXIMATE AND SHALL BE ADJUSTED TO PRODUCE THE SPECIFIED BALLISTIC REQUIREMENTS.
- 8 - DELETED.

9. EACH CARTRIDGE SHALL BE INSPECTED USING RECEIVER GAGE 8649100.
10. ALL REQUIREMENTS OF MIL-C-60553 APPLY.
11. FOR DATA LIST SEE DL 8596123.

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1. NAME (LAST, FIRST, MIDDLE) 2. ADDRESS 3. CITY 4. STATE 5. ZIP		6. DATE OF BIRTH 7. SEX 8. RACE 9. RELIGION 10. MARITAL STATUS 11. OCCUPATION 12. EDUCATION 13. SOCIAL SECURITY NUMBER 14. CURRENT EMPLOYER 15. CURRENT EMPLOYER ADDRESS 16. CURRENT EMPLOYER PHONE		17. IDENTIFICATION NUMBER 18. DATE OF IDENTIFICATION 19. IDENTIFICATION METHOD 20. IDENTIFICATION OFFICE 21. IDENTIFICATION OFFICE ADDRESS 22. IDENTIFICATION OFFICE PHONE	
23. DATE OF ENTRY 24. DATE OF EXIT 25. DATE OF DEPARTURE 26. DATE OF RETURN 27. DATE OF REENTRY 28. DATE OF REENTRY 29. DATE OF REENTRY 30. DATE OF REENTRY		31. DATE OF ENTRY 32. DATE OF EXIT 33. DATE OF DEPARTURE 34. DATE OF RETURN 35. DATE OF REENTRY 36. DATE OF REENTRY 37. DATE OF REENTRY 38. DATE OF REENTRY		39. DATE OF ENTRY 40. DATE OF EXIT 41. DATE OF DEPARTURE 42. DATE OF RETURN 43. DATE OF REENTRY 44. DATE OF REENTRY 45. DATE OF REENTRY 46. DATE OF REENTRY	

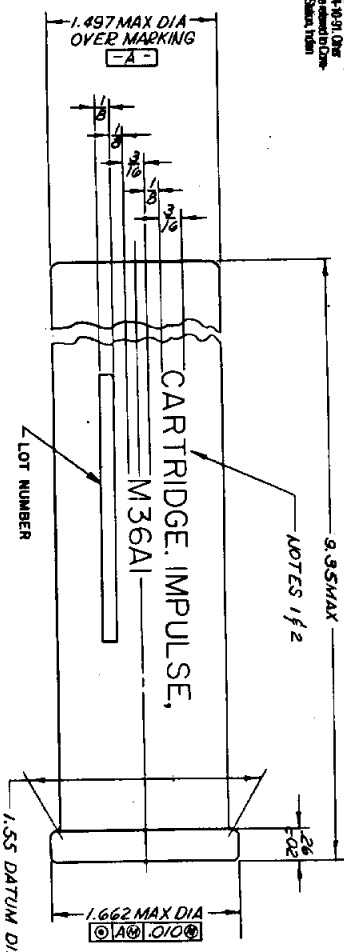
CODE IDENT NO. 19200
 CARTRIDGE,
 DELAY, M90
 ASSEMBLY
 U.S. ARMY
 FRANKFORD Arsenal
 8596123
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PART NO. 8596123
CODE IDENT NO. 19200

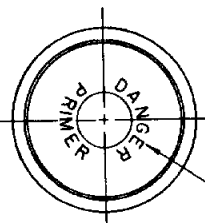
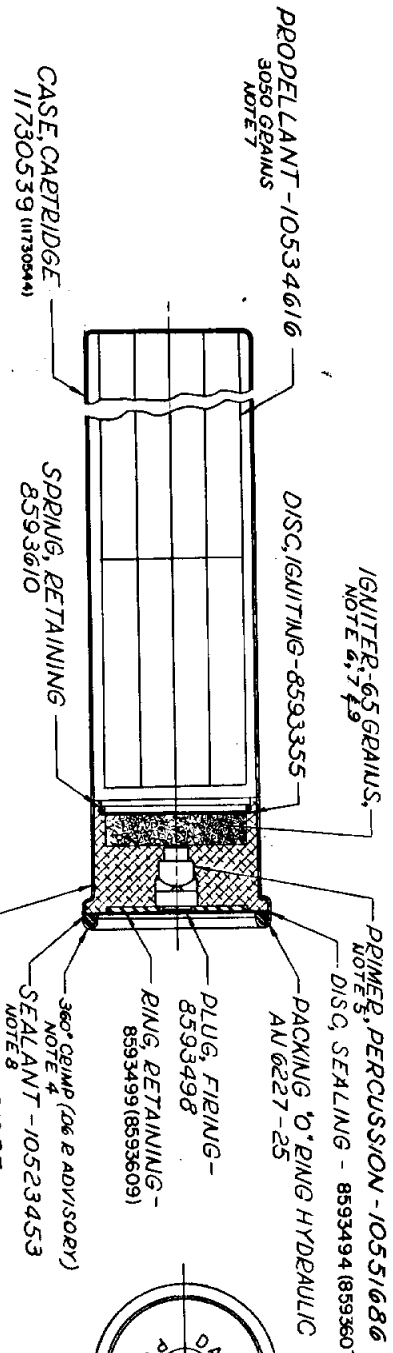
①

A4D

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-WILL NOT BE UPDATED-



- NOTES:
- 1- STAMP WITH BLACK NO. 37038 STENCIL INK, SPEC. A-1-208; CARTRIDGE DESIGNATION, LOT AND PER MIL-STD-1188. MARKING NOT TO EXCEED 270° OF PERIPHERY.
 - 2- SEALING DISC TO BE ASSEMBLED SO THAT WARNING MARKING APPEARS AS SHOWN.
 - 3- O-RING CASE INTO RING TO INSURE A SEAL, CAPABLE OF WITHSTANDING 14 PSI. PER MIN. PRESSURE DIFFERENTIAL WITH A MAXIMUM PERMISSIBLE LEAK RATE OF 1X10⁻⁶ CC/SEC.
 - 4- PRIMER, PERCUSSION, SPEC. MIL-P-46610, SHALL BE USED. PRIMER ANVIL LEGS TO BE SEATED ON THE BOTTOM OF THE PRIMER POCKET.
 - 5- BLACK POWDER, CLASS 1, SPEC. MIL-P-223.
 - 6- THE IGNITER AND PROPELLANT WEIGHTS GIVEN ARE APPROXIMATE AND SHALL BE ADJUSTED TO PRODUCE THE SPECIFIED BALLISTIC REQUIREMENT (G₀) OF THE ADJOINING SURFACES OF THE SEALING DISC AND CASE SIDEWALL, BEFORE INSERTING TO RING. THE PROPELLANT CANTY MUST BE NEUT FREE OF SEALANT.
 - 7- EXPOSURE HAZARD CLASSIFICATION: CLASS 2
 - 8- STORAGE COMPATIBILITY GROUPING: GROUP D
 - 9- DOT MARKING: BLACK POWDER

LOADED CARTRIDGE HAZARD DATA
EXPOSURE HAZARD CLASSIFICATION (QUANTITY - DISTANCE CLASS)
STORAGE COMPATIBILITY GROUPING: GROUP B, E OR N
DEPARTMENT OF TRANSPORTATION (DOT) HAZARD CLASS: CLASS C
DOT MARKING: "SMALL ARMS AMMUNITION - CLASS C"
HANDLE CAREFULLY - KEEP FIRE AWAY

REVISIONS		DATE		BY		REASON	
1	11/73	11/73	11/73	11/73	11/73	11/73	11/73
2	11/73	11/73	11/73	11/73	11/73	11/73	11/73
3	11/73	11/73	11/73	11/73	11/73	11/73	11/73
4	11/73	11/73	11/73	11/73	11/73	11/73	11/73
5	11/73	11/73	11/73	11/73	11/73	11/73	11/73
6	11/73	11/73	11/73	11/73	11/73	11/73	11/73
7	11/73	11/73	11/73	11/73	11/73	11/73	11/73
8	11/73	11/73	11/73	11/73	11/73	11/73	11/73
9	11/73	11/73	11/73	11/73	11/73	11/73	11/73
10	11/73	11/73	11/73	11/73	11/73	11/73	11/73

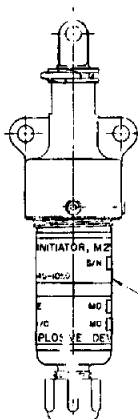
PART NO. 11730543

REVISIONS		DATE		BY		REASON	
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3	11/73	11/73	11/73	11/73	11/73	11/73	11/73
4	11/73	11/73	11/73	11/73	11/73	11/73	11/73
5	11/73	11/73	11/73	11/73	11/73	11/73	11/73
6	11/73	11/73	11/73	11/73	11/73	11/73	11/73
7	11/73	11/73	11/73	11/73	11/73	11/73	11/73
8	11/73	11/73	11/73	11/73	11/73	11/73	11/73
9	11/73	11/73	11/73	11/73	11/73	11/73	11/73
10	11/73	11/73	11/73	11/73	11/73	11/73	11/73

PAD

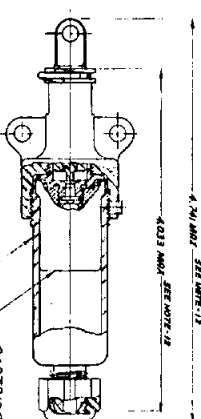
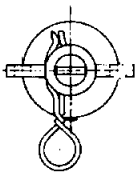
WEEKLY ITEM SERIAL NO
SEE NOTE 2 AND 5

~~SECRET~~
EXAGON SOCIETY, NUCLEAR CUMFAMT, A.L.O. STEEL
NO. B1641-35UMF-3A-1/6 LONG (COMMERCIAL)
SEE NOTE-7, 10 AND 1



LABEL, IDENTIFICATION-8597560
SEE NOTE 'AND3

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CARRIDGE, INDUCTIVE, M9L ASSEMBLY
8591230
- METAL PARTS, ASSEMBLY
10520551

5. SEVEN MEMBERS OF THE BOARD SHALL BE CHARGED ON LABELS AS THREE DIGIT NUMBERS, AND TWO 0099.

5-DIGIT NUMBERS; THE 195 SMALL BE MARKED ON LABELS AS THREE DIGIT NUMBERS, ON THRU 099.

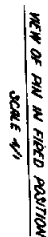
[illegible][illegible][illegible]

13. CARTRIDGE DIGITALIZED IN INSTRUCTIONS SHALL BE MANUFACTURED WITHIN ONE YEAR PRIOR TO THE DATE OF INITIATOR ASSEMBLY.

Craig H. Hall, Project Administrator, C. Corporation
submitted to U.S. Government and First American
a certificate of incorporation, dated 4/10/94. Other
requests for this document shall be referred to Con-
necticut Office, Finance Department, State, Policy
Unit, Mail 20640-5008.

[illegible]

PAQ

[illegible]

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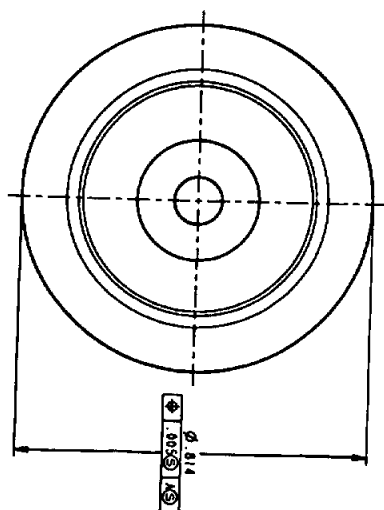
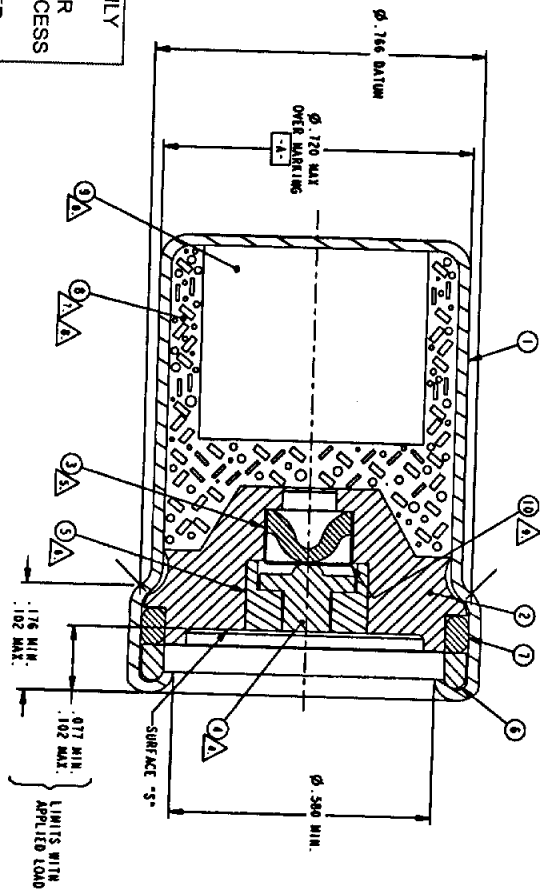
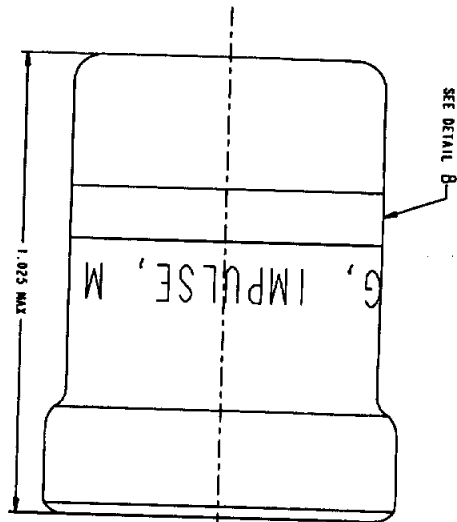
3-THE ASSEMBLY OF THE INITIATOR CHAMBER, PART NO. 10320403, TO THE INITIATOR CRG, PART NO. 10320552, SHALL BE HAND TIGHT, TO PRECISELY DISASSEMBLY FOR LOADING.

4-FINISHING PIN NUTS, PART NO. 10350113, SHALL BE SCREWED ONTO THE INITIATOR CRG, PART NO. 10320552, AND SEALED WITH THE APPLICATION OF 50 INCH POUNDS OF TORQUE.

5-ALL REQUIREMENTS OF MIL-IT-65031, APPLY.

DISSEMINATION STATEMENT C: Distribution authorized to U.S. Government and its contractors, administration of operations used, 4-10-97. Other requests for this document shall be referred to Communications/Office Naval Documents/Safety Index Panel, MD 20660-5001.

105203551 CODE IDENT NO. 152-00 INITIATOR CARTRIDGE ACTIVATED		105203551 U.S. ARMY PUNISHMENT OFFICIAL	
METAL PARTS ASSEMBLY		105203551 1	
105203551 1		105203551 1	



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CTG, IMPULSE, M 91

DETAIL B
SCALE NONE

LOT NO.  

REV	DESCRIPTION	DATE	APPROVAL
0	THIS SHEET ADDED SEE ECP 973220102001	990323	72402

CAD MAINTAINED, CHANGES
SHALL BE INCORPORATED BY
THE DESIGN ACTIVITY.

SIZE	CAGE CODE	DRAWING NUMBER
D	30003	8597230
SCALE 3/4"	WEIGHT 11.16	SHEET 1 OF 2

1. THIS DRAWING IS THE PROPERTY OF THE U.S. GOVERNMENT AND IS TO BE USED FOR OFFICIAL GOVERNMENT PURPOSES ONLY. IT IS TO BE KEPT IN THE OFFICE OF THE ORIGINATOR AND NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM THE U.S. GOVERNMENT.

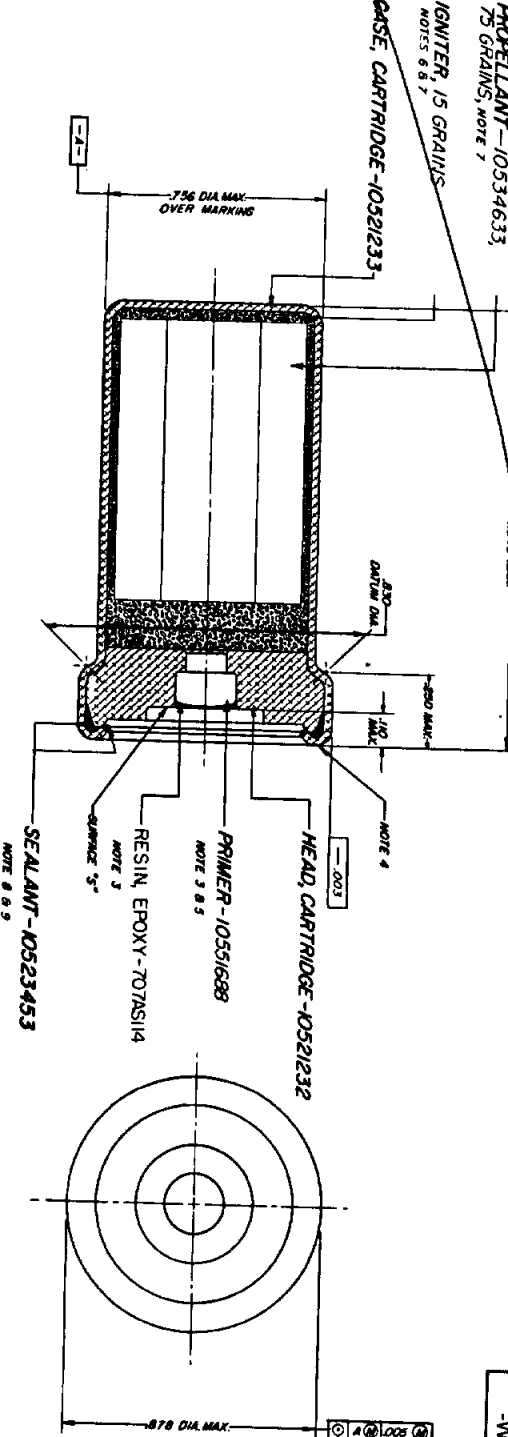
D 10520589

CTG. IMPULSE M127

NO.	REVISION	DATE	BY	CHKD.	APP'D.
1	INITIAL DESIGN	10/1/78	J. J. J.	J. J. J.	J. J. J.
2	REVISION	10/1/78	J. J. J.	J. J. J.	J. J. J.
3	REVISION	10/1/78	J. J. J.	J. J. J.	J. J. J.
4	REVISION	10/1/78	J. J. J.	J. J. J.	J. J. J.
5	REVISION	10/1/78	J. J. J.	J. J. J.	J. J. J.
6	REVISION	10/1/78	J. J. J.	J. J. J.	J. J. J.
7	REVISION	10/1/78	J. J. J.	J. J. J.	J. J. J.
8	REVISION	10/1/78	J. J. J.	J. J. J.	J. J. J.
9	REVISION	10/1/78	J. J. J.	J. J. J.	J. J. J.
10	REVISION	10/1/78	J. J. J.	J. J. J.	J. J. J.

LOT NUMBERS
NOTES 1 AND 2
DETAIL A

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MANUFACTURE OR PROCESS
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NOTES-

- 1- MARK WITH FINE BLACK INK, 17 INCHES, SPEC. A-4-208, CARTRIDGE DESIGNATION AND LOT NUMBER PER MIL-STD-188, LETTERS AND NUMBERS SHALL BE 8 POINT MEDIAN BOTTIC UPPER CASE, MARKING NOT TO EXCEED 20% OF PERIMETER.
- 2- COAT MARKING WITH MOISTURE AND FUNGUS RESISTANT VARNISH, SPEC. MIL-W-1173.
- 3- JUNCTION OF TOP EDGE OF PRIMER AND POCKET TO BE SEALED AND CHAMFER 30°.
- 4- CHAMF CARTRIDGE TO INSURE A SEAL, CAPABLE OF WITHSTANDING 14 PSI INTERNAL-EXTERNAL PRESSURE DIFFERENTIAL WITH A MAXIMUM PERMISSIBLE LEAK RATE OF 17 IN-4 CC/SEC.
- 5- PRIMER, RESIN, EPOXY, SPEC. MIL-W-4-604, SHALL BE USED. PRIMER MUST BE SEATED ON THE BOTTOM OF THE PRIMER POCKET AND THE CROWN OF THE PRIMER CUP TO 3/16 DIA. TO 3/32 DIA. BELOW FLUSH WITH SURFACE 5°.
- 6- BLACK PRIMER, CLASS 3, SPEC. MIL-W-4-604.
- 7- THE PRIMER AND PROPELLANT WEIGHTS GIVEN ARE APPROXIMATE AND SHALL BE ADJUSTED TO PRODUCE THE SPECIFIED BALLISTIC REQUIREMENTS.
- 8- APPLY SEALANT BETWEEN THE CARTRIDGE HEAD AND CASE FOR THE ENTIRE LENGTH (150") BEFORE CURING. THE PROPELLANT CAVITY MUST BE KEPT FREE OF SEALANT.
- 9- APPLY SEALANT AT THE JUNCTION OF THE CARTRIDGE HEAD AND CASE FOR THE ENTIRE LENGTH (150") AFTER CURING.

- 10- EACH CARTRIDGE SHALL BE INSPECTED USING RECEIVER GAGE 9047251.
- 11- ALL REQUIREMENTS OF MIL-C-80843 APPLY.
- 12- FOR DATA LIST SEE DL 10520589.

1. THIS DRAWING IS THE PROPERTY OF THE U.S. GOVERNMENT AND IS TO BE USED FOR OFFICIAL GOVERNMENT PURPOSES ONLY. IT IS TO BE KEPT IN THE OFFICE OF THE ORIGINATOR AND NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM THE U.S. GOVERNMENT.

CODE IDENT NO. 19200
PART NO. 10520589

NO.	REVISION	DATE	BY	CHKD.	APP'D.
1	INITIAL DESIGN	10/1/78	J. J. J.	J. J. J.	J. J. J.
2	REVISION	10/1/78	J. J. J.	J. J. J.	J. J. J.
3	REVISION	10/1/78	J. J. J.	J. J. J.	J. J. J.
4	REVISION	10/1/78	J. J. J.	J. J. J.	J. J. J.
5	REVISION	10/1/78	J. J. J.	J. J. J.	J. J. J.
6	REVISION	10/1/78	J. J. J.	J. J. J.	J. J. J.
7	REVISION	10/1/78	J. J. J.	J. J. J.	J. J. J.
8	REVISION	10/1/78	J. J. J.	J. J. J.	J. J. J.
9	REVISION	10/1/78	J. J. J.	J. J. J.	J. J. J.
10	REVISION	10/1/78	J. J. J.	J. J. J.	J. J. J.

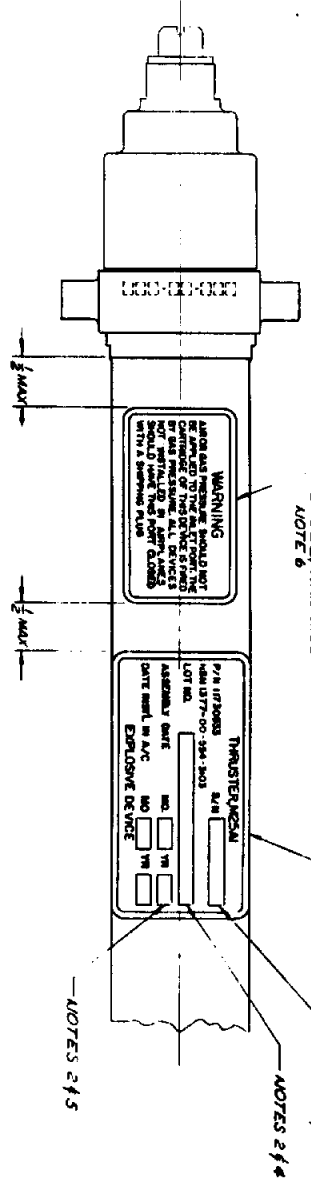
CARTRIDGE, IMPULSE
M127
ASSEMBLY

U.S. ARMY
PRODUCTION DRAWING
10520589

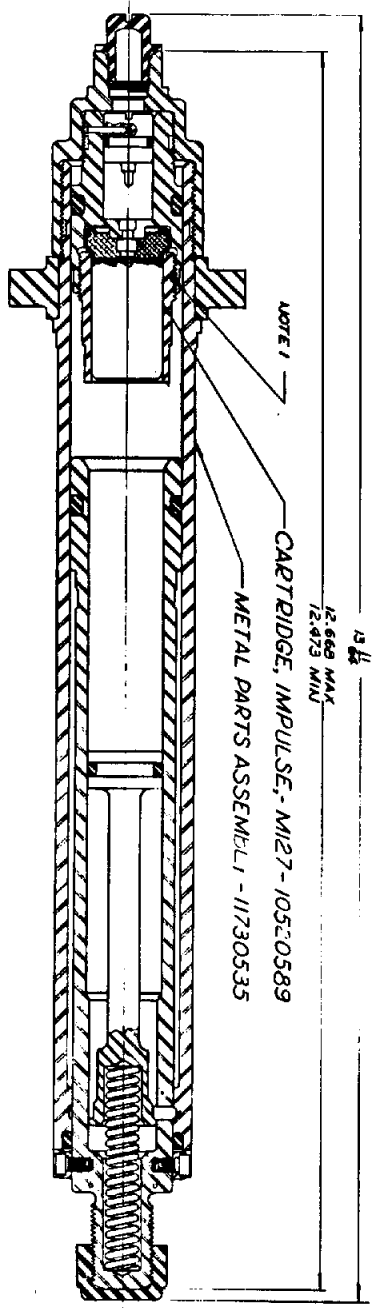
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— LABEL, WARNING - 5184811
NOTE 6

-LABEL, IDENTIFICATION-11730534
NOTE 6



NOTE 1: CARTRIDGE, IMPULSE, - M127 - 10520589
METAL PARTS ASSEMBLY - 11730535



NOTES--
1- THESE SUBASSEMBLY OF GUIDE RETAINER -1053464, STUCCO-0521017 AND INDULSE
CAB-10056, M12-10520389 SHALL BE ASSEMBLED PRIOR TO ASSEMBLY WITH THE HEAD-
10521455.
2- LETTERS AND NUMERALS SHALL BE 1/8 IN. HIGH APPROX. LABEL MARKING SHALL BE COMPLETED
ON ALL SUITABLE MECHANICAL SURFACES PRIOR TO THE COMPLETION OF THE COMPLETE TEST
CHARACTERISTICS. MARKING SHALL BE ACCOMPLISHED PRIOR TO THE LABELING. COMPLETELY
TO BE STANDARD UPPER CASE GOTHIC AND WHOLLY WITHIN ALLOTTED SPACES.
3- INSERT ITEM SERIAL NO.
4- INSERT LOT NO. PER MIL-STD-1188.
5- INSERT MONTH AND YEAR ITEM IS ASSEMBLED.
6- THE BOUNDED LABEL SHALL BE CAPABLE OF MEETING THE REQUIREMENTS OF SPEC MIL-D-19334.
7- CARTRIDGES ASSEMBLED IN THIS REGISTER SHALL BE MANUFACTURED WITHIN A YEAR PRIOR TO THE DATE OF
8- ALL REQUIREMENTS OF MIL-T-90204 AND MIL-T-90261 APPLY.
9- FOR DATA LIST SEE DL11730353.



1. Name of the person or organization 2. Address 3. City 4. State 5. Zip		6. Date of birth 7. Sex 8. Race 9. Religion 10. Education		11. Date of entry 12. Date of departure 13. Date of return		14. Date of entry 15. Date of departure 16. Date of return		17. Date of entry 18. Date of departure 19. Date of return		20. Date of entry 21. Date of departure 22. Date of return	
23. Name of the person or organization 24. Address 25. City 26. State 27. Zip		28. Date of birth 29. Sex 30. Race 31. Religion 32. Education		33. Date of entry 34. Date of departure 35. Date of return		36. Date of entry 37. Date of departure 38. Date of return		39. Date of entry 40. Date of departure 41. Date of return		42. Date of entry 43. Date of departure 44. Date of return	
45. Name of the person or organization 46. Address 47. City 48. State 49. Zip		50. Date of birth 51. Sex 52. Race 53. Religion 54. Education		55. Date of entry 56. Date of departure 57. Date of return		58. Date of entry 59. Date of departure 60. Date of return		61. Date of entry 62. Date of departure 63. Date of return		64. Date of entry 65. Date of departure 66. Date of return	
67. Name of the person or organization 68. Address 69. City 70. State 71. Zip		72. Date of birth 73. Sex 74. Race 75. Religion 76. Education		77. Date of entry 78. Date of departure 79. Date of return		80. Date of entry 81. Date of departure 82. Date of return		83. Date of entry 84. Date of departure 85. Date of return		86. Date of entry 87. Date of departure 88. Date of return	
89. Name of the person or organization 90. Address 91. City 92. State 93. Zip		94. Date of birth 95. Sex 96. Race 97. Religion 98. Education		99. Date of entry 100. Date of departure 101. Date of return		102. Date of entry 103. Date of departure 104. Date of return		105. Date of entry 106. Date of departure 107. Date of return		108. Date of entry 109. Date of departure 110. Date of return	

PART No. 117

PAD

CLASSIFICATION OF CHARACTERISTICS (DDO-STD-2101)	
CHARACTERISTICS	1000-STD-2101
CHARACTERISTICS	1000-STD-2101
CHARACTERISTICS	1000-STD-2101

REVISIONS	DATE	APPROVED
1	10/1/84	10/1/84
2	10/1/84	10/1/84
3	10/1/84	10/1/84

- NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH DDO-STD-100.
 2. APPLY A LIGHT COAT OF O-RING LUBRICANT 8, PRIOR TO ASSEMBLY.

3. ASSEMBLY MUST BE FREE OF FOREIGN MATTER.
4. ASSEMBLY PROCESS MUST BE SO CONTROLLED THAT NO BURS ARE INTRODUCED DURING ASSEMBLY.
5. GAS PORT SHALL BE FREE OF ALL OBSTRUCTIONS.

6. ROD MUST BE STRAIGHT AND UNMATTED.
7. THREADS MUST BE FULL AND UNMATTED.

8. SEAL THREADS WITH SEALING COMPOUND, FIND NO. 12. NO COMPOUND WILL BE PERMITTED INSIDE OF HOUSING. A MINIMUM OF 8 HOURS DRYING TIME IS REQUIRED AFTER ASSEMBLY. SEALING COMPOUND SHALL BE APPLIED ONLY TO LARGE PALE THREADS OF HOUSING, FIND NO. 2, 360° IN BAND OF .125 INCH MINIMUM WIDTH.
9. THE CYLINDER, FIND NO. 9, SHALL WITHSTAND A BREAKAWAY TORQUE OF 50 IN LBS WITH RESPECT TO THE HOUSING, FIND NO. 2, PRIOR TO SEALING OF ITS 4 CYLINDER HOLES.

10. THE ASSEMBLED RELEASE MUST COMPLY WITH FUNCTIONAL TEST REQUIREMENTS OF ITEM SPECIFICATION MIL-R-82689.
11. SEAL 4 HOLES OF CYLINDER, FIND NO. 9 WITH PAPER LABEL CUT TO .500 Ø, FIND NO. 18. DIP COAT NO. 10 WITH LUBRICANT, APPROXIMATELY .250 INCH OF SEALED END TO AIR DRY, FIND NO. 11. INSERT UNIT AND RELEED TO .005 INCH THICKNESS OF COATING NOT TO EXCEED .005 INCH.
12. ATTACH LABEL, FIND NO. 15 AS SHOWN, 90° FROM CENTERLINE OF GAS PORT.

13. LETTERS AND NUMERALS SHALL BE APPROXIMATELY .125 INCH HIGH. LABEL MARKINGS SHALL BE COMPLETED BY ANY SUITABLE MEANS CAPABLE OF PRODUCING LEGIBLE, COMPLETELY UPSET CHARACTERS. APPLICATION SHALL BE ACCOMPLISHED PRIOR TO LABEL WITHIN ALLOTTED SPACE. TO BE UPPER CASE AND COMPLETE, LEGIBLE AND CORRECT. TRACKING SHALL BE COMPLETE, LEGIBLE AND CORRECT.

14. INSERT LOT NUMBER, LOT NUMBER TO BE IN ACCORDANCE WITH MIL-STD-1168.

15. INSERT SERIAL NUMBER, SERIAL NUMBERS 1 THRU 99 SHALL BE MARKED ON LABELS AS THREE DIGIT NUMBERS, 001 THRU 099.

16. ALL COMPONENTS MUST BE PRESENT AND ASSEMBLED PROPERLY BEFORE PRESENTATION FOR ACCEPTANCE BY THE GOVERNMENT.

17. FOR DATA LIST SEE DLS184966.
18. ALL REQUIREMENTS OF MIL-R-82689 APPLY.

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DISTRIBUTION STATEMENT C: DISTRIBUTION AUTHORIZED TO U.S. GOVERNMENT AGENCIES AND THEIR CONTRACTORS, ADMINISTRATIVE OR OPERATIONAL USE 3-89-92. OTHER REQUESTS FOR THIS DOCUMENT SHALL BE REFERRED TO COMPTON, INDIAN HEAD DIVISION, NAVAL SURFACE WARFARE CENTER, 181 STRAUSS AVENUE, INDIAN HEAD, MD. 20640-5035

ITEM NO.	DESCRIPTION	REVISION	DATE	APPROVED
15	1	8594184	MIL-C-55017	1
14	1	7550171-11	11	1
13	3	7519060-1004	1004	1
12	AR	GRADE CV	MIL-S-22473	1
11	AR	CHPSN I	MIL-V-173	1
10	1		R-A-1460	1
9	1	5184973		1
8	1	7528775-010		1
7	1	5184971		1
6	1	5184968		1
5	AR	30003	83405129	1
4	1	7528775-008		1
3	1	5184974		1
2	1	5184967		1
1	1	5184969		1

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10	1		R-A-1460	1
9	1	5184973		1
8	1	7528775-010		1
7	1	5184971		1
6	1	5184968		1
5	AR	30003	83405129	1
4	1	7528775-008		1
3	1	5184974		1
2	1	5184967		1
1	1	5184969		1

ITEM NO.	DESCRIPTION	REVISION	DATE	APPROVED
15	1	8594184	MIL-C-55017	1
14	1	7550171-11	11	1
13	3	7519060-1004	1004	1
12	AR	GRADE CV	MIL-S-22473	1
11	AR	CHPSN I	MIL-V-173	1
10	1		R-A-1460	1
9	1	5184973		1
8	1	7528775-010		1
7	1	5184971		1
6	1	5184968		1
5	AR	30003	83405129	1
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2	1	5184967		1
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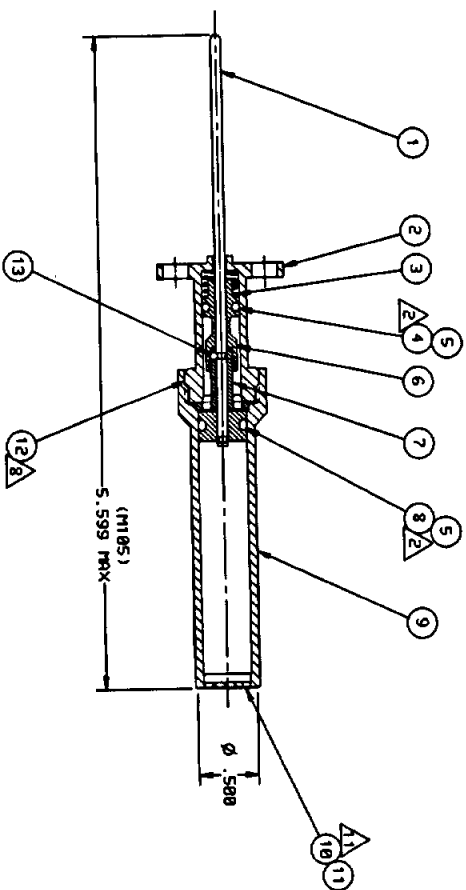
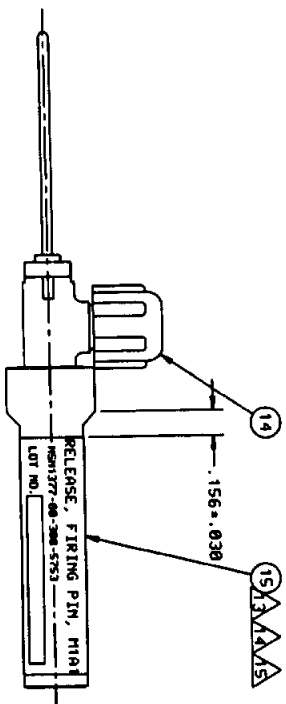
ITEM NO.	DESCRIPTION	REVISION	DATE	APPROVED
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10	1		R-A-1460	1
9	1	5184973		1
8	1	7528775-010		1

CLASSIFICATION OF CHEMICALS (100-510-2101)
CHEMICAL - 1
PLATE - 12
MINOR - ALL OTHER CHEMICALS

REV	DESCRIPTION	DATE	APPROVED
1	REVISIONS		
2	REVISIONS		
3	REVISIONS		
4	REVISIONS		
5	REVISIONS		
6	REVISIONS		
7	REVISIONS		
8	REVISIONS		
9	REVISIONS		
10	REVISIONS		
11	REVISIONS		
12	REVISIONS		
13	REVISIONS		
14	REVISIONS		
15	REVISIONS		
16	REVISIONS		
17	REVISIONS		
18	REVISIONS		
19	REVISIONS		
20	REVISIONS		

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-WILL NOT BE UPDATED-



SIZE	CODE	IDENT NO.	POSIN	ORIGIN NO.
D	53711	5184966		
SHEET 2 OF 2				

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH DOD-STD-100.
2. PIECE PARTS SHALL BE FREE OF GRIME AND FOREIGN MATERIAL BEFORE ASSEMBLY.
3. ASSEMBLE SPRING, FIND NO. 8, FIRING HEAD FIND NO. 9 AND FIRING PIN, FIND NO. 7, COCKING THE ASSEMBLY AND INSTALLING THE SAFETY PIN, FIND NO. 13.
4. ASSEMBLE BASE, FIND NO. 1 TO OUTSIDE TUBE ASSEMBLY, FIND NO. 5, WITH A RUN ON TORQUE OF 75 POUNDS MINIMUM AND A BOTTOMING TORQUE OF 500-550 INCH POUNDS.
5. ASSEMBLE TELESCOPING TUBE STOP, FIND NO. 6 AND OUTSIDE TUBE ASSEMBLY, FIND NO. 3 WITH A RUN ON TORQUE OF 75 INCH POUNDS MINIMUM AND A BOTTOMING TORQUE OF 400 ± 50 INCH POUNDS.
6. ASSEMBLE FIRING HEAD, FIND NO. 9 AND INSIDE TUBE ASSEMBLY, FIND NO. 3, INCLUDING THE M29A2 CARTRIDGE, FIND NO. 11, WITH A BOTTOMING TORQUE OF 400-550 INCH POUNDS. THE CARTRIDGE LOT SHALL HAVE BEEN MANUFACTURED WITHIN ONE YEAR OF USE AND SHALL ALL BE FROM SAME LOT. FLAT ON TELESCOPING TUBE STOP, FIND NO. 6, TO BE PARALLEL WITH HOLE IN BASE, FIND NO. 1, WITHIN ± 2° AS SHOWN. THIS REQUIREMENT SHALL BE ACCOMPLISHED BY BACKING OFF TELESCOPING TUBE STOP NO MORE THAN 1/4 TURN.
7. DIMENSION APPLIES TO END OF TELESCOPING TUBE STOP, FIND NO. 6.
8. OUTSIDE TUBE ASSEMBLY, FIND NO. 5, TO BE ASSEMBLED SO THAT THE PART NUMBER IS ADJACENT TO TELESCOPING TUBE STOP.
9. SETSCREW, FIND NO. 14, IS TO BE COATED WITH SEALER, FIND NO. 15, THREADED PORTION ONLY AND INSTALLED IN TELESCOPING TUBE STOP, AFTER ASSEMBLY COVER HEAD WITH COATING COMPOUND, FIND NO. 16.
10. INSTALL THE M1A1 FIRING PIN RELEASE, FIND NO. 10, USING TWO SCREWS, FIND NO. 17 AND LOCKWIRE THE SCREWS IN PLACE USING LOCKWIRE, FIND NO. 18, ROUTING THE WIRE CLOCKWISE TO PREVENT UNSCREWING. VERIFY PRESENCE OF PIN AFTER INSTALLATION FOR EACH REMOVER.]
11. APPLY LABELS ON OUTSIDE OF ASSEMBLY IN AREA SHOWN.
12. SETSCREW, HEXAGON SOCKET, KNURLED CUP POINT, PASSIVATED PER QQ-P-35.
13. ALL THE REQUIREMENTS OF MIL-R-82878 AND MIL-R-82889 APPLY.
14. PACK IN ACCORDANCE WITH SPI 01-364-3955.

CLASSIFICATION OF CHARACTERISTICS (DOD-STD-1001)
CRITICAL - 2
HARD - NONE
HIDDEN - ALL CHARACTERISTICS

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ITEM NO.	QTY REQD	CONC	QTY NO. ON REQD	SPECIFICATION	DESCRIPTION	REVISION	DATE	APPROVED
21	1				SPACER			
20	1				LABEL, WARNING			
19	1				LABEL, IDENTIFICATION			
18	AR				WIRE, LOCKING			
17	2				SCREW, MACHINE			
16	AR				COATING COMPOUND			
15	AR				SEALER			
14	1				SETSCREW, 10-32UNF-3A X .12LG			
13	1				SAFETY PIN ASSEMBLY			
12	1				SEAL, PLAIN			
11	1				CARTRIDGE ASSEMBLY, M29A2			
10	1				GAS ACTIVATED FIRING PIN RELEASE ASSEMBLY, M1A1			
9	1				HEAD, FIRING			
8	1				SPRING, FIRING PIN			
7	1				PIN, FIRING			
6	1				STOP, TELESCOPING TUBE			
5	1				OUTSIDE TUBE AND PELLET ASSEMBLY			
4	1				TUBE, TELESCOPING			
3	1				INSIDE TUBE AND PELLET ASSEMBLY			
2	1				SEAL, PLAIN			
1	1				BASE			

PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.		APPROVALS		DATE	
TOLERANCES: FRACTIONS — DECIMALS —		PREP: SPEC. 11		DATE: 11/1/92	
2 PLACE DECIMALS —		CON: SPEC. 11		DATE: 11/1/92	
3 PLACE DECIMALS —		ENGR: SPEC. 11		DATE: 11/1/92	
MATERIAL: —		APPROVED FOR MANUFACTURE		SCALE: 1:1	
NET WT. ASST. —		APPROVED FOR MANUFACTURE		SCALE: 1:1	
APPLICATION: —		APPROVED FOR MANUFACTURE		SCALE: 1:1	

AIRCRAFT CANOPY
REMOVER ASSEMBLY

848-31A

SIZE (DIM. INCHES) NO. PARTS LISTING NO.
D 53711 6783541

8

7

6

5

4

3

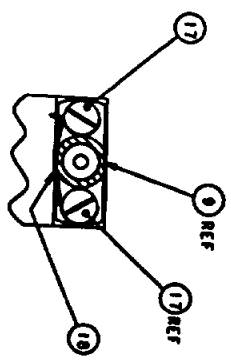
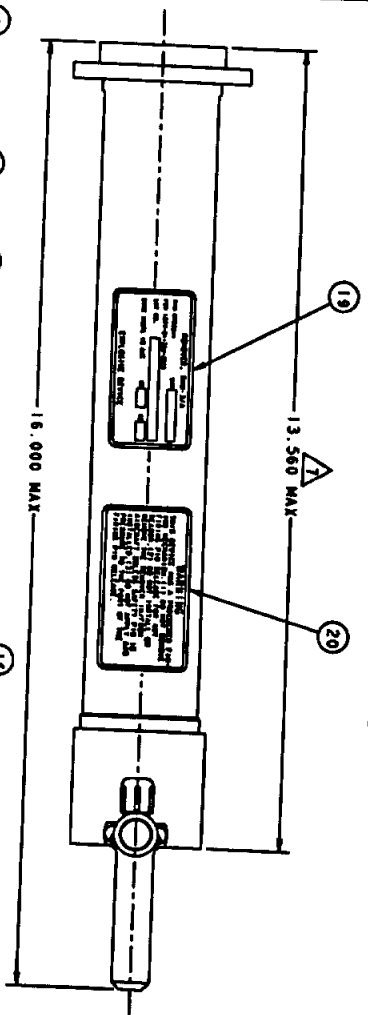
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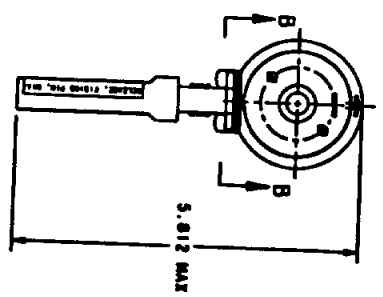
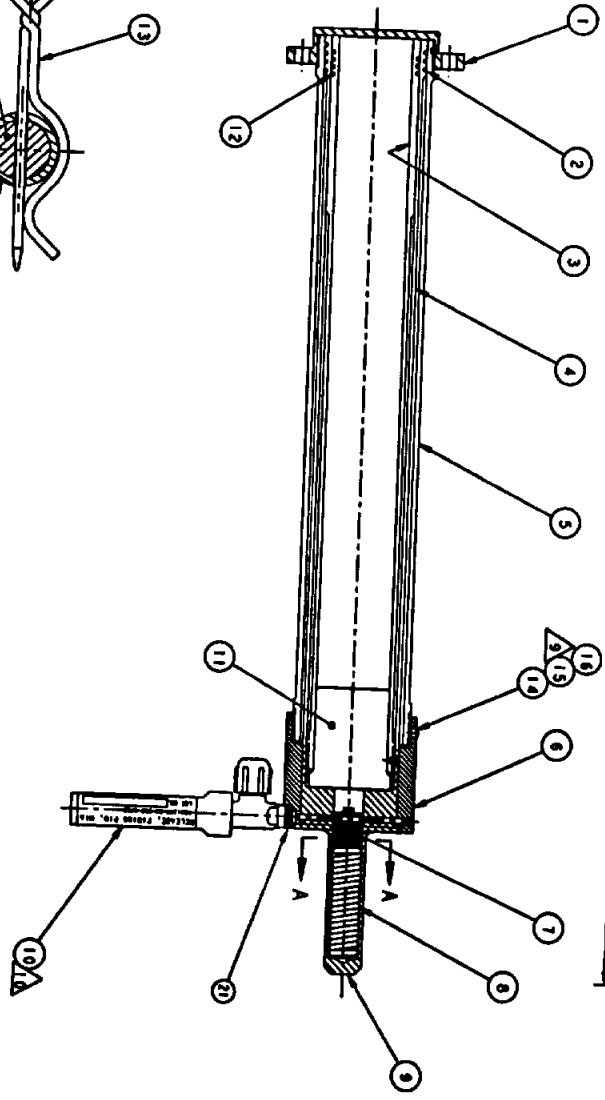
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CLASSIFICATION OF	
CHARACTERISTICS (DD-87b-21041)	
CRITICAL - WORK	
MAJOR - WORK	
MINOR - ALL CHARACTERISTICS	

REV	DESCRIPTION	DATE	APPROVED
1	CP 181220023	24 SEP 76	W/C



SECTION B-B
SCALE: 3/1



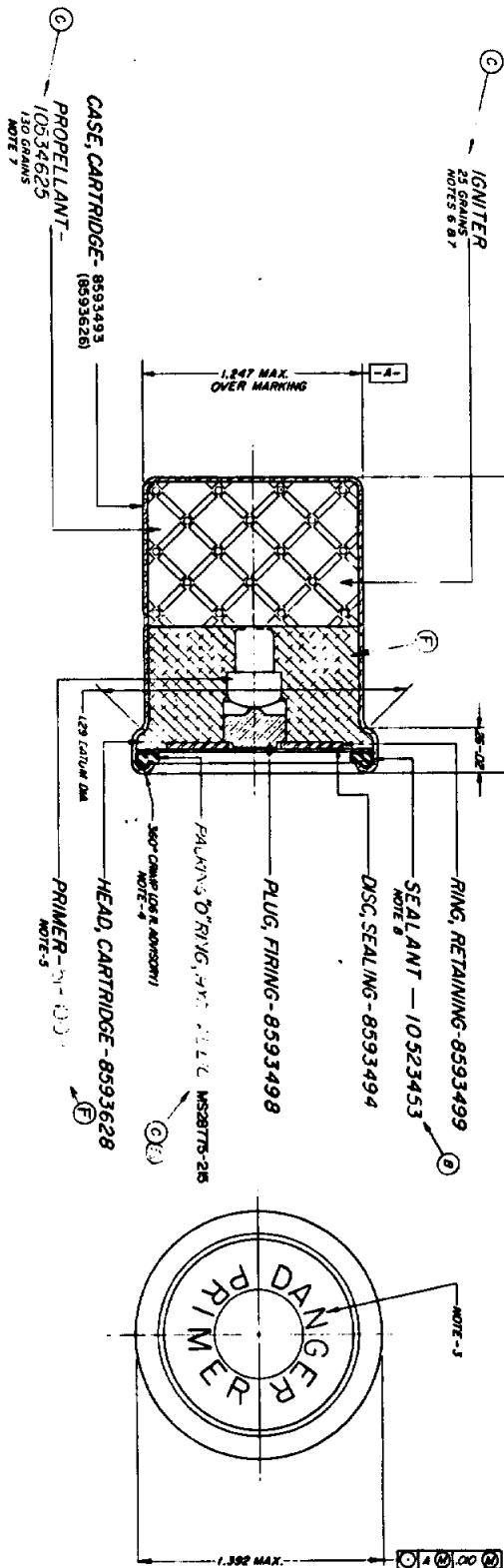
SECTION A-A
SCALE: 3/1

SHEET NO.	53711
6783541	
SHEET 2 OF 2	

[illegible]

DETAIL A

CART RIDGE
IMPULSE
M29A2



- 1- STAMP WITH BLACK INK ON STEEL AND SPEC. A-X-108 : CARTRIDGE DESIGNATION, LOT NO. AND MFG. DATE.
MARKING NOT TO EXCEED 210° OF FLEXIBILITY.
- 2-COAT MARKINGS WITH ADHESIVE AND FLUOROS-RESISTANT MARKER, SPEC. MIL-P-4723.
- 3- RANGING DISC TO BE ASSEMBLED SO THAT MARKING APPEARS AS SHOWN.
- 4- CHARGE CASE AND GUNING TO ENSURE A SEAL CAPABLE OF WITHSTANDING 14 P.S.I. INTERNAL, EXTERNAL PRESSURE
- 5- DIFFERENTIAL WITH A MAXIMUM PERMISSIBLE LEAK RATE OF 1 X 10 CC/SEC.
- 6- PRIMER, PERCUSSION SPEC. MIL-P-4860, SHALL BE USED. WHEN AVAILABLE IT BE WATERPROOF.
- 7- THE LIFETIME OF THE PRIMER IS 10 YEARS.
- 8- BLACK POWDER CLASS 3, SPEC. MIL-P-225.
- 9- THE KINETIC AND PROPELLANT WEIGHTS ARE APPROXIMATE AND SHALL BE ADJUSTED TO PRODUCE THE SPECIFIED BALLISTIC REQUIREMENTS.
- 10- SEALING MATERIAL THICKNESS SHALL BE SUCH THAT THE LENGTH OF THE WADING SURFACE OF THE SEALING DISC AND THE PROPELLANT CAVITY MUST BE NEARLY FREE OF SEALANT.
- 11- CARTRIDGE IDENTIFICATION SHALL BE TAKEN POINT MEDIAN BOTTOM UPPER CASE LETTERS AND FIGURES. LETTERS AND FIGURES FOR REMAINER OF REQUIRED MARKING SHALL BE EIGHT POINT MEDIAN BOTTOM, UPPER CASE.
- 12- ALL CARTRIDGES OF MILL-C-4669 SHALL BE INSPECTED USING RECEIVER GAGE, 8634067.
- 13- ALL REQUIREMENTS OF MIL-C-4669 APPLY.
- 14- DATA LIST SEE DL 8935820.
- 15- INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-883C.

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FOR LIST OF PARTS, SEE
ENGINEERING PARTS LIST 8593623

[illegible]

CODE IDENT NO. 19200
PART NO. 8593625

CARTRIDGE
IMPULSE,
M29A2
ASSFMBLY

8593629

NAME	DATE	GRADE
1. A. KOSMAN B. WATSON C. J. ANDERSON	7-10-68	5
2. A. C. H. ANDERSON	7-10-68	5
3. C. E. H. ANDERSON	7-10-68	5
4. E. H. ANDERSON	7-10-68	5
5. 1-3 E. H. ANDERSON	7-10-68	5
6. SET 1-3 E. H. ANDERSON	7-10-68	5
7. SET 1-3 E. H. ANDERSON	7-10-68	5

D 8593625